	Application No.	Applicant(s)	
Notice of Allowability	10/681,186	CHO ET AL.	
	Examiner	Art Unit	
	Phuong N. Hoang	2194	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject t	pplication. If not included n will be mailed in due c	d ourse. THIS
1. \boxtimes This communication is responsive to <u>Interview and amendation</u>	<u>ment</u> .		
2. X The allowed claim(s) is/are 26, 28 - 35, 37 -44; now renum	<u>bered as 1 - 17</u> .		
 3. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	been received. been received in Application No		on from the
* Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requ	uirements
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give			TICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO	-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or in the C	Office action of	
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the drawi ne header according to 37 CFR 1.121(ngs in the front (not the i	ack) of
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I 	sit of BIOLOGICAL MATERIAL (FOR THE DEPOSIT OF BIOLOGIC	must be submitted. No AL MATERIAL.	ote the
Attachment(s) 1. Notice of References Cited (PTO-892)	5 Motion of Informal 5	Potont Application	
Notice of Preferences Cited (110-092) Notice of Draftperson's Patent Drawing Review (PTO-948)	5. ☐ Notice of Informal F6. ☒ Interview Summary	• •	
3. ⊠ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Dá 7. ⊠ Examiner's Amendi	te	
Paper No./Mail Date 10/9/03 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Stateme		/ance
	9. Other		
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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

- 2. Authorization for this examiner's amendment was given in a telephone interview with Mr. Zachary S. Stern (Reg. No. 54,719) on 10/5/06.
- 3. Amend the claims in accordance to the attachment in the e-mail, filed by applicant.

REASON FOR ALLOWANCE

- 4. The drawings filed on 03/12/02 are accepted by the examiner.
- 5. The following is an examiner's statement of reasons for allowance:

The steps of a same type node data memory configured to store node data representing nodes included in agent systems of the same type as the original agent system and other agent systems of different type discriminately; a different type node data memory configured to store access data for each node included in the other agent

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systems; a correspondence table configured to store correspondence data between each category of movement commands and each type of the other agent systems, when taken in the context of claims as a whole, is not uncovered by Wilkins and Lange. Moreover, evidence for the modifying the prior art teachings by one of ordinary skill level in the art was not uncovered so as to result in the invention as recited in claims 1, 35, and 44.

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong N. Hoang whose telephone number is (571)272-3763. The examiner can normally be reached on Monday - Friday 9:00 am to 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Thomson can be reached on 571-272-3718. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Claims 1-25 (Canceled).

Claim 26 (Currently Amended): An agent system for processing information by an agent having agent state data, the agent system as an original agent system being connected to a different type agent system through a network, comprising:

a wrapper class memory configured to store component data of wrappers corresponding to each type of other agent systems, the wrappers being for processing information in a corresponding agent system;

a same type node data memory configured to store node data representing nodes included in agent systems of the same type as the original agent system and other agent systems of different type discriminately;

a different type node data memory configured to store access data for each node included in the other agent systems;

a correspondence table configured to store correspondence data between each category of movement commands and each type of the other agent systems;

a movement request detector configured to detect a request for the agent to move to the different type agent system from the agent state data by referring to the correspondence data and the node data; and

a wrapper generator, in response to the request, configured to generate a wrapper corresponding to a type of the different type agent system based on the component data of the type stored in said wrapper class memory;

wherein, the wrapper generates a wrapped agent based on a component of the wrapper, and sends the wrapped agent to the different type agent system, the wrapped agent having the agent state data and the access data.

the wrapped agent executes the agent state data to use resources in the different type agent system, and returns the agent state data based on an execution result to the agent in the original agent system,

the agent continually executes the agent state data based on the execution result in the original agent system.

Claim 27 (Canceled).

Claim 28 (Currently Amended): The agent system according to claim [[27]]26, wherein said movement request detector detects a movement command to move to other node from a script of the agent state data, decides whether the other node is included in the other agent systems of different type by referring to said same type node data memory, and extracts a type of other agent system corresponding to the movement command by referring to said correspondence table if the other node is included in the other agent systems of different type.

Claim 29 (Previously Presented): The agent system according to claim 28, further comprising:

a retrieval unit configured to retrieve the component data of a wrapper corresponding to the type of other agent system extracted by said movement request detector from said wrapper class memory,

wherein said wrapper generator extracts the access data for the other node as a movement destination node from said different type node data memory after generating the wrapper, supplies the access data to the wrapper.

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Claim 30 (Previously Presented): The agent system according to claim 29, wherein the wrapper comprises:

a different type movement memory configured to store movement data of the agent between the different type agent system and another agent system; and

a movement source return memory configured to store return data of the agent from the different type agent system to the original agent system.

Claim 31 (Previously Presented): The agent system according to claim 30, wherein the wrapper supplies the movement data and the return data to the wrapped agent in the different type agent system through an external communication unit.

Claim 32 (Previously Presented): The agent system according to claim 31, wherein the wrapped agent comprises:

an agent state memory configured to store the agent state data including the script; a movement unit configured to store the movement data;

a return unit configured to store the return data; and

a controller configured to execute action of the wrapped agent according to the data stored in said agent state memory, said movement unit and said return unit.

Claim 33 (Previously Presented): The agent system according to claim 32, wherein, if the action of the wrapped agent fails in the different type agent system, said return unit indicates the agent in the original agent system to execute the same action.

Claim 34 (Previously Presented): The agent system according to claim 32, wherein, if a movement command to a movement source node is detected from the script of the agent

state data, said return unit returns a function of the wrapped agent to the agent of the movement source node in the original agent system.

Claim 35 (Currently Amended): A method for processing information by an agent having agent state data, the agent system as an original agent system being connected to a different type agent system through a network, comprising:

storing component data of wrappers corresponding to each type of other agent systems, the wrappers being for processing information in a corresponding agent system;

discriminately storing node data representing nodes included in agent systems of the same type as the original agent system and other agent systems of different type;

storing access data for each node included in the other agent systems;

storing correspondence data between each category of movement commands and each type of the other agent systems;

detecting a request for the agent to move to the different type agent system from the agent state data by referring to the correspondence data and the node data;

generating a wrapper corresponding to a type of the different type agent system based on the stored component data of the type in response to the request;

generating a wrapped agent based on a component of the wrapper, the wrapped agent having the agent state data and the access data;

sending the wrapped agent to the different type agent system;

in the wrapped agent,

executing the agent state data in the wrapped agent to use resources in the different type agent system, and

returning the agent state data based on an execution result to the agent in the original agent system; and

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in the agent,

continually executing the agent state data in the agent based on the execution result of the wrapped agent in the original agent system.

Claim 36 (Canceled).

Claim 37 (Currently Amended): The method according to claim [[36]]35, further comprising:

detecting a movement command to move to other node from a script of the agent state data;

deciding whether the other node is included in the other agent systems of different type by referring to the stored node data, and

extracting a type of other agent system corresponding to the movement command by referring to the stored correspondence data if the other node is included in the other agent systems of different type.

Claim 38 (Previously Presented): The method according to claim 37, further comprising:

retrieving component data of a wrapper corresponding to the type of other agent system from the stored component data;

extracting access data for the other node as a movement destination node from the stored access data after generating the wrapper; and

supplying the access data to the wrapper.

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Claim 39 (Previously Presented): The method according to claim 38, further comprising:

storing movement data of the agent between the different type agent system and another agent system in the wrapper; and

storing return data of the agent from the different type agent system to the original agent system in the wrapper.

Claim 40 (Previously Presented): The method according to claim 39, in the wrapper, further comprising:

supplying the movement data and the return data to the wrapped agent in the different type agent system through an external communication unit.

Claim 41 (Previously Presented): The method according to claim 40, further comprising:

storing the agent state data including the script in the wrapped agent; storing the movement data in the wrapped agent; storing the return data in the wrapped agent; and executing action of the wrapped agent according to the stored data.

Claim 42 (Previously Presented): The method according to claim 41, further comprising:

indicating the agent in the original agent system to execute the same action, if the action of the wrapped agent fails in the different type agent system.

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Claim 43 (Previously Presented): The method according to claim 41, further comprising:

returning a function of the wrapped agent to the agent of the movement source node in the original agent system, if a movement command to a movement source node is detected from the script of the agent state data.

Claim 44 (Currently Amended): A computer program product, comprising:

a computer readable program code embodied in said product for causing a computer
to process information by an agent having agent state data, the agent system as an original
agent system being connected to a different type agent system through a network, said
computer readable program code comprising:

a first program code to store component data of wrappers corresponding to each type of other agent systems, the wrappers being for processing information in a corresponding agent system;

a second program code to discriminately store node data representing nodes included in agent systems of the same type as the original agent system and other agent systems of different type;

a third program code to store access data for each node included in the other agent systems;

a fourth program code to store correspondence data between each category of movement commands and each type of the other agent systems;

a second <u>fifth</u> program code to detect a request for the agent to move to the different type agent system from the agent state data <u>by referring to the correspondence data and the</u> node data;

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a third sixth program code to generate a wrapper corresponding to a type of the different type agent system based on the stored component data of the type in response to the request;

a fourth seventh program code to generate a wrapped agent based on a component of the wrapper, the wrapped agent having the agent state data and the access data;

a fifth an eighth program code to send the wrapped agent to the different type agent system;

a sixth <u>ninth</u> program code for the wrapped agent to execute the agent state data to use resources in the different type agent system;

a seventh tenth program code for the wrapped agent to return the agent state data based on an execution result to the agent in the original agent system; and

an eighth eleventh program code for the agent to continually execute the agent state data based on the execution result in the original agent system.

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